

Appl. No. 09/939,166  
 Amdt. Date September 15, 2004  
 Response to Office Action dated April 15, 2004

# **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1 (currently amended): A system for stimulating the healing of tissue, comprising:  
 a porous pad;  
 an airtight dressing;  
~~a means for connecting~~ a distal end of a conduit connected to through the dressing;  
 a canister removably connected to a proximal end of the conduit;  
 an electric pump for applying negative pressure to a wound site;  
 a ~~first hydrophobic~~ filter positioned between said canister and said ~~electric pump means~~  
~~for applying negative pressure; and~~  
 an odor vapor ~~second~~ filter positioned between said ~~first hydrophobic~~ filter and said  
~~electric pump means for applying negative pressure; and~~  
~~a means for managing a power supply source to power said electric pump.~~

2 (currently amended): The system of claim 1 wherein said hydrophobic first filter  
 and said odor vapor second filter are incorporated into an opening as an integral part of said  
 canister.

3 (currently amended): The system of claim 1 further comprising an means access  
port for sampling wound fluids, said access port being connected to said conduit and having a  
resealable membrane operable to maintain a seal after being punctured.

4 (currently amended): The system of claim 1 further comprising a means clamp  
 for securing said system to a pole stationary object.

5 (currently amended): The system of claim 1, further comprising a portable  
housing for said electric pump, said portable housing having a clamp for securing said system to

Appl. No. 09/939,166  
Amdt. Date September 15, 2004  
Response to Office Action dated April 15, 2004

~~a pole wherein said means for applying negative pressure to the wound site comprises an electric pump housed within a portable housing.~~

6 (cancelled).

7 (original): The system of claim 1 wherein said porous pad is comprised of an open cell polymer.

8 (currently amended): The system of claim 1, further comprising 6 wherein said means for ~~managing said power supply source~~ is comprised of deactivating a backlight to a display after a predetermined interval.

9 (currently amended): The system of claim 1, further comprising a motor control that determines a tentative motor drive power for reaching a target pressure and which withholds 6 wherein said means for ~~managing said power supply source~~ is comprised of ~~preventing electric power from reaching an electric motor until~~ unless the tentative motor drive power is sufficient power has been generated to activate said motor.

10 (original): The system of claim 1 wherein said conduit is comprised of longitudinal partitions that form a drainage conduit and a pressure detection conduit.

11 (original): The system of claim 10 wherein a plurality of said detection conduits are arranged about said drainage conduit.

12 (currently amended): The system of claim 10, further comprising a resealable access port for sampling fluids, said access port comprising an appendage of ~~wherein said means for sampling fluids is comprised of a resealable access port to said drainage conduit.~~

13 (currently amended): A system for stimulating the healing of tissue, comprising: a porous pad; an airtight dressing; ~~a means for connecting~~ a distal end of a drainage tube

Appl. No. 09/939,166  
Amdt. Date September 15, 2004  
Response to Office Action dated April 15, 2004

connected to through said dressing; a canister removably connected to a proximal end of the drainage tube; a self-contained pumping mechanism for applying negative pressure to the wound site; the pumping mechanism including an electric motor; and a power management motor control that determines a tentative motor drive power for reaching a target pressure and which withholds electric power from the electric motor unless the tentative motor drive power is sufficient to activate said electric motor. ~~means for managing a power supply to said self-contained pumping mechanism.~~

14 (currently amended): The system of claim 13, further comprising wherein said ~~means for managing said power supply comprises deactivating a backlight to a display after a predetermined interval.~~

15 (cancelled).

16 (currently amended): The system of claim 13 further comprising an access port means for sampling wound fluids, said access port being connected to said drainage tube and having a resealable membrane operable to maintain a seal after being punctured.

17 (currently amended): The system of claim 13 further comprising a clamp ~~means for securing said system to a pole stationary object.~~

18 (previously presented): The system of claim 13 wherein said porous pad is comprised of a polyvinyl alcohol foam.

19 (currently amended): A system for stimulating the healing of tissue, comprising:  
a porous pad;  
an airtight dressing;  
an electric pump for applying negative pressure to a wound site;  
a canister removably connected to said electric pump ~~means for applying negative pressure;~~

Appl. No. 09/939,166  
 Amdt. Date September 15, 2004  
 Response to Office Action dated April 15, 2004

a housing for containment of said canister and said electric pump means for applying negative pressure;

a clamp means for securing said housing to a pole stationary object; and

a power management motor control that determines a tentative drive power for reaching a target pressure and which withholds electric power from said electric pump unless the tentative drive power is sufficient to activate means for managing a power supply for said electric pump.

20 (cancelled).

21 (currently amended): The system of claim 19, further comprising wherein said power supply for said electric pump comprises a portable power unit for supplying power to said electric pump.

22 (cancelled).

23 (currently amended): The system of claim 19, further comprising wherein said means for managing a power supply is comprised of deactivating a backlight to a display on said housing after a predetermined interval.

24 (cancelled).

25 (original): The system of claim 19 wherein said porous pad is comprised of a polyvinyl alcohol foam.

26 (previously presented): The system of claim 19 further comprising a conduit having a proximal end and a distal end, and wherein said proximal end is removably connected to said canister and said distal end is in fluid communication with the wound site.

27 (original): The system of claim 26 wherein said conduit is comprised of longitudinal partitions that form a drainage conduit and a pressure detection conduit.

Appl. No. 09/939,166  
Amdt. Date September 15, 2004  
Response to Office Action dated April 15, 2004

28 (previously presented): The system of claim 27 wherein a plurality of said detection conduits are arranged about said drainage conduit.

29 (currently amended): The system of claim 26 further comprising a ~~means~~ resealable access port for sampling wound fluids, said access port being connected to said conduit and having a resealable membrane operable to maintain a seal after being punctured.

30 (currently amended): The system of claim 29 wherein said ~~means for sampling wound fluids is comprised of a~~ resealable access port comprises an appendage of said conduit.

31 (previously presented): A system for stimulating the healing of tissue, comprising:  
a porous pad;  
an airtight dressing;  
a means for applying negative pressure to a wound site;  
a power management motor control that determines a tentative drive power for reaching a target pressure and which withholds electric power from said means for applying negative pressure unless the tentative drive power is sufficient to activate ~~means for managing a power supply to said means for applying said negative pressure;~~ and  
a means for varying said negative pressure over a time interval.

32 (original): The system of claim 31 wherein said means for varying said negative pressure comprises adjusting actual pressure to meet a varying target pressure.

33 (original): The system of claim 32 wherein said varying target pressure oscillates between a target maximum and a target minimum pressure.

34 (currently amended): The system of claim 31, ~~further comprising wherein said means for managing said power supply is comprised of~~ deactivating a backlight to a display of said system after a predetermined interval.

Appl. No. 09/939,166  
Amdt. Date September 15, 2004  
Response to Office Action dated April 15, 2004

35. (cancelled).

36. (currently amended) A system for stimulating the healing of tissue, comprising:  
a porous pad for application at a wound site;  
an airtight dressing to cover the porous pad;  
a variable frequency ~~an oscillating pump~~ for applying negative pressure to ~~a the~~ wound site; and  
~~a means for maximizing control system to determine an optimum drive frequency for driving the variable frequency pump in order to maximize pump flow rate over a pressure range;~~  
and  
~~a means for managing a power supply to said oscillating pump.~~

37 (cancelled).

38 (currently amended): The system of claim 36, further comprising wherein said  
~~means for varying said drive frequency comprises:~~  
a pressure sensor for measuring pressure across said pump; and  
~~a control system for determining optimum drive frequency for said pump relative to pressure detected by said pressure sensor; and~~  
a variable frequency drive circuit for driving said pump at said optimum drive frequency.

39 (currently amended): The system of claim 36, further comprising wherein said  
~~means for managing a power supply is comprised of deactivating a backlight to a display of said~~  
system after a predetermined interval.

40 (currently amended): The system of claim 36, further comprising a power  
management control that determines a tentative drive power for reaching a target pressure and  
which withholds electric power from said means for applying negative pressure unless the  
tentative drive power is sufficient to activate wherein said means for managing a power supply is

Appl. No. 09/939,166  
Amdt. Date September 15, 2004  
Response to Office Action dated April 15, 2004

~~comprised of preventing electric power from reaching said oscillating pump until sufficient power has been generated to activate said oscillating pump.~~